

What is claimed is:

1. A bandpass filter for contrast and color enhancement of a video monitor comprising a dye having substantially the absorbance spectrum as shown in Figure 1, a dye having substantially the absorbance spectrum as shown in Figure 2, Rhodamine 101 and Luxol Fast Blue MBSN, uniformly incorporated in a polymer matrix.
2. The filter of claim 1 comprising about 0.40-0.60 weight % of the dye having the absorbance spectrum of Figure 1, about 0.20-0.35 weight % of the dye having the absorbance spectrum of Figure 2, about 0.05-0.25 weight % Rhodamine 101 and about 0.10-1.5 weight % of Luxol Fast Blue MBSN based on the weight of the polymer matrix.
3. The filter of claim 1, wherein the polymer matrix is composed of polyvinyl acetate, polyvinyl alcohol, vinyl polymers, polyacrylates, polyurethane, polyamide, polyester, polyether, polyketone, or polyesteramide.
4. The filter of claim 1 wherein the polymer matrix is polyvinyl acetate.
5. The filter of claim 2 wherein the polymer matrix is polyvinyl acetate.

6. A color display device comprising:
a face plate having an inner surface and an
outer surface, the inner surface containing
a phosphor layer; and a translucent filter
on the outer surface of the face plate;
the filter comprising a dye having
substantially the absorbance spectrum as
shown in Figure 1, a dye having
substantially the absorbance spectrum as
shown in Figure 2, Rhodamine 101 and Luxol
Fast Blue MBSN uniformly incorporated in a
polymer matrix.
7. The color display device of claim 6, wherein the
filter comprises about 0.40-0.60 wt% of the dye having
the absorbance spectrum of Figure 1, about 0.20-0.35
wt% of the dye having the absorbance spectrum of
Figure 2, about 0.05-0.25 wt% Rhodamine 101 and about
0.10-1.5 wt% of Luxol Fast Blue MBSN based on the
weight of the polymer matrix.
8. The color display device of claim 6, wherein the
polymer matrix is composed of polyvinyl acetate,
polyvinyl alcohol, vinyl polymers, polyacrylates,
polyurethane, polyamide, polyester, polyether,
polyketone, or polyesteramide.
9. The color display device of claim 6 wherein the
polymer matrix is polyvinyl acetate.
10. The color display device of claim 7 wherein the
polymer matrix is polyvinyl acetate.

11. A bandpass filter for color enhancement of a video monitor comprising Fluorescein amine isomer 1, Phloxine B, Sulfurodamine 101, and Luxol Fast Blue MBSN uniformly incorporated in a polymer matrix.

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12. The filter of claim 11, wherein Fluorescein amine isomer 1 comprises about 0.35% to about 0.60% by weight of the filter, Phloxine B comprises about 0.10% to about 0.20% by weight of the filter, Sulfurhodamine 101 comprises about 0.20% to about 0.45% by weight of the filter, Luxol Fast Blue MBSN comprises about 0.50% to about 1.5% by weight of the polymer matrix.

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13. The filter of claim 11, further comprising Mordant Orange dye incorporated in the polymer matrix.

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14. The filter of claim 12 further containing about 0.50% to about 1.0% by weight Mordent Orange 1.

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15. The filter of claim 11, wherein the polymer matrix is composed of polyvinyl acetate, polyvinyl alcohol, vinyl polymers, polyacrylates, polyurethane, polyamide, polyester, polyether, polyketone, or polyesteramide.

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16. The filter of claim 13, wherein the polymer matrix is composed of polyvinyl acetate, polyvinyl alcohol, vinyl polymers, polyacrylates, polyurethane, polyamide, polyester, polyether, polyketone, or polyesteramide.

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17. A color display device comprising:
a face plate having an inner surface and an
outer surface, the inner surface
containing a phosphor layer; and
5 a translucent filter formed over the
outer surface of the face plate;
the filter comprising dyes Fluorescein amine
isomer 1, Phloxine B, Sulfurhodamine
101 and Luxol Fast Blue MBSN uniformly
10 incorporated in a polymer matrix.
18. The color display device of claim 17, wherein
Fluorescein amine isomer 1 comprises about
0.35% to about 0.60% by weight of the
15 polymer matrix;
Phloxine B comprises about 0.10% to about
0.20% by weight of the polymer matrix;
Sulfurhodamine 101 comprises about 0.20% to
about 0.45% by weight of the polymer
20 matrix; and
Luxol Fast Blue MBSN comprises about 0.50%
to about 1.5% by weight of the polymer
matrix.
- 25 19. The color display device of claim 17, wherein the
polymer matrix of the filter further comprises Mordant
Orange 1 dye.
- 30 20. The color display device of claim 18, further
comprising from about 0.5% to about 1.0% Mordent
Orange 1.

21. The color display device of claim 17, wherein the polymer matrix comprises polyvinyl acetate, polyvinyl alcohol, vinyl polymers, polyacrylates, polyurethane, polyamide, polyester, polyether, polyketone, or polyesteramide.
22. The color display device of claim 19, wherein the polymer matrix comprises polyvinyl acetate, polyvinyl alcohol, vinyl polymers, polyacrylates, polyurethane, polyamide, polyester, polyether, polyketone, or polyesteramide.
23. The color display device of claim 6 comprising a plasma display device.
24. The color display device of claim 17 comprising a plasma display device.
25. A dye solution comprising a solvent and the dye comprising a dye having substantially the absorbance spectrum as shown in Figure 1, a dye having substantially the absorbance spectrum as shown in Figure 2, Rhodamine 101, Luxol Fast Blue MBSN or mixtures thereof.
26. The dye solution of claim 25, wherein the solvent comprises water, or an organic solvent or mixtures thereof.
27. The dye solution of claim 26, wherein the organic solvent comprises isopropyl alcohol, methyl alcohol or mixtures thereof.

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28. The dye solution of claim 25, further comprising a polymer.

5 29. The dye solution of claim 28, wherein the polymer comprises a polyvinyl acetate, polyvinyl alcohol, vinyl polymers, polyacrylates, polyurethane, polyamide, polyester, polyether, polyketone, or polyesteramide.